



# MasterSpray 1250 Multistage

*The Anhydro MasterSpray 1250 Multi-stage is a small-scale production plant, designed to deliver both performance and trustworthy drying results.*



## **Equipment Supply, Basic Plant**

- Feed pump, feed tank, water tank and feed pipe
- Two-fluid nozzle atomizer, co-current
- Air intake filter, electrical air heater for main air, and hot air duct
- Drying chamber, complete with rupture disk for EX-protection
- Integrated Fluid Bed
- Cyclone
- Fan and ducts
- Control panel with PLC, graphical soft-touch colour screen and data-logging facility
- Support structure

## **Optional Equipment**

- High Pressure atomizer system
- Direct / indirect heaters
- Vent duct
- Pneumatic hammers
- Bag filter
- Air Broom
- Wall sweep system
- External Fluid Bed
- Wet scrubber
- CIP System
- Simple ICS



The Anhydro Small Scale Plant, Type MasterSpray 1250 Multi-stage has been specially designed for industrial small-scale production as well as continuous operation.

The unique Modular Concept allows our customers to select a quite basic plant, onto which a vast number of high quality standardised modules can be added. The MasterSpray 1250 Multi-stage performs fully up-scalable results and has received particular interest in the industry of food additives, e.g. flavours, plant extracts and functional foods. Also the pharmaceutical sector and the dairy sector use this dryer as a production unit and a pilot plant, respectively.

**Technical data**

**Process Design Data:**  
 Max. Inlet air temp. 325 °C  
 Max. Drying Air rate 1250 kg/h  
 Drying chamber dia. 2150 mm

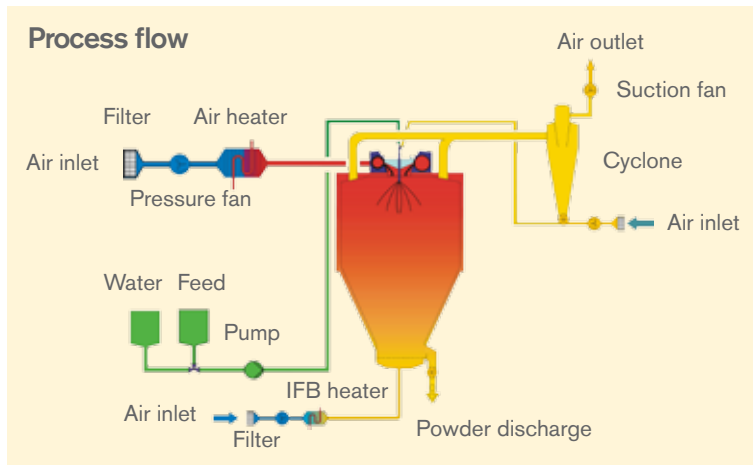
**Installed Power:**  
 Power supply, std. 3 x 400 V/50 Hz  
 Pressure fan 4 KW  
 Suction fan 7,5 KW  
 Main Air Heater 108 KW  
 Air hester Integr. fluid bed 10 KW  
 IFB fan 2,7 KW  
 Fines return fan 1,75 KW  
 Feed pump 0,5 KW

**Consumption:**  
 Compressed air (at 1,5 - 5,6 bar (g)) 85 - 212 l/min.

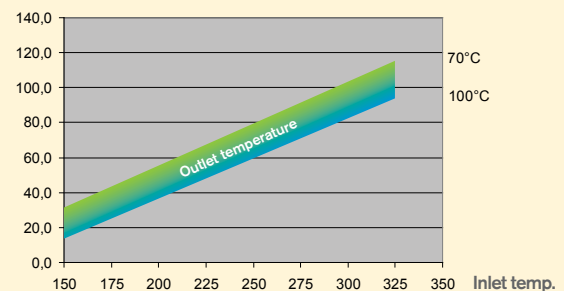
**Safety:**  
 Pressure shock resistance 1 bar (g)  
 With Rupture Disk, max Kst. Value 200  
 Noise emission 75 dB (A)  
 Pneumatic hammers 90 dB (C)

**Materials:**  
 Product contact parts AISI 316  
 External surfaces AISI 304

Complies with regulations and standards according to CE, ATEX and cGMP



**Water evaporation**



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